Eaton MX UPS

Product Snapshot

Power Rating:	5-20 kVA
Voltage:	120/156 to 208 Volts
Frequency:	50/60 Hz Autoselect
Configuration:	Rackmount (3U) / Tower

Features

- Online double-conversion UPS technology for 100% compatibility with any application, environment or genset
- High density, versatile rack/tower form factor for standalone UPSs or scalable frames
- Up to 97% efficiency to conserve energy and modular, scalable frame design for N+1 dynamic redundancy
- Automatic by-pass and hot-swappable power module for high availability
  - Extended runtime capabilities with multiple, hot-swappable battery modules (optional)
- Money-saving design utilizes common modules for standalone UPS or scalable frame

Flexibility

- Multilingual LCD with mimic and LEDs for rapid view of the UPS status, diagnostics and event log
- Outputs: NEMA L6-30R, 30A outlets and terminal block for hardwired installations
- Backup time: five minutes up to two hours by adding 3U battery modules

Minimum total cost of ownership (TCO)

- Compatibility with last generation server power supplies
- MX Frame is a modular system with 5 kVA units paralleled to provide up to 20 or 15 kVA with redundancy

Ideal protection for:

- Departmental networks
- Rack cabinets
- Blade servers
- Storage networks
- Telecom—Switches/VoIP

EATON
Powering Business Worldwide

Eaton MX... pay as you grow!

Seamless migration from 5 kVA to 20 kVA at optimized cost

The MX is a truly scalable optimized rack solution that allows you to add power as your business grows. You are able to easily expand your system from 5 kVA up to 20 kVA, while protecting your initial investment, by simply adding an MX Frame and/or more submodules. The base unit provides 208V, which is now the standard for next-generation blade servers and enterprise IT equipment. Add one or several modular 2U transformers to power any remaining 120V devices in 5 kVA increments.

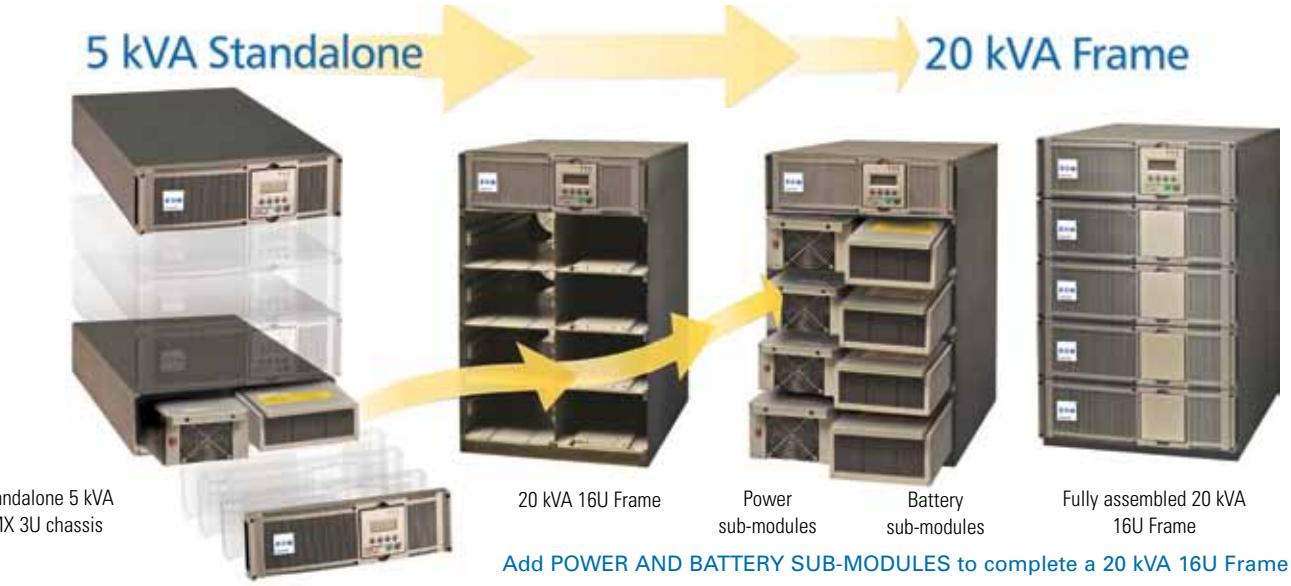
You can also build in the level of redundancy that is required for your mission critical application.

Eaton MX RT 5 kVA
4.5 kW

MX 16U Frame
15 kVA
13.5 kW

15 kVA
13.5 kW

MX 16U Frame
in standard 19-inch
enclosure



Standalone 5 kVA
MX 3U chassis

20 kVA 16U Frame

Power
sub-modules

Battery
sub-modules

Fully assembled 20 kVA
16U Frame

Add POWER AND BATTERY SUB-MODULES to complete a 20 kVA 16U Frame

Designed For Blade Server Environment

The MX has been designed with virtualization in mind. It comes with a free power management suite that provides unrivaled benefits.

- You can deploy network shutdown modules (NSMs) for the various operating systems (OSs) on the blades through the host VMware ESX or Microsoft Hyper-V OS. A single installation on the host, instead of multiple installations on virtual machines, saves time and money.
- The NSM software can also manage any kind of redundant arrangement, whether it is at the server level or the UPS level. Avoid premature shutdown of your IT system while you still have several levels of redundancy available.
- Up to 10 IP addresses can be remotely monitored using the free copy of the Intelligent Power® Manager monitoring and management software included. Additional versions are also available: 11-100 or unlimited.
- UPS-protected devices, such as servers, can be shutdown automatically with NetWatch 5.0 software.

Eaton NetWatch Client 5.0 has tested compatible with Cisco Unified Communications Manager 4.3. Go to www.eaton.com/PQ/cisco for disclaimer.

Services

- Two-year warranty, including batteries

Associated services

- Extended warranties (three and five years)
- Commissioning

Scalability—Add the backup time you need!

MX Frame: Extended runtime recommendations

With the MX Frame, you are able to add battery modules to get the amount of backup time that you need. Please refer to the chart below for your extended battery configuration options.

Note: For configurations with extended battery modules, output power factor is 0.7.

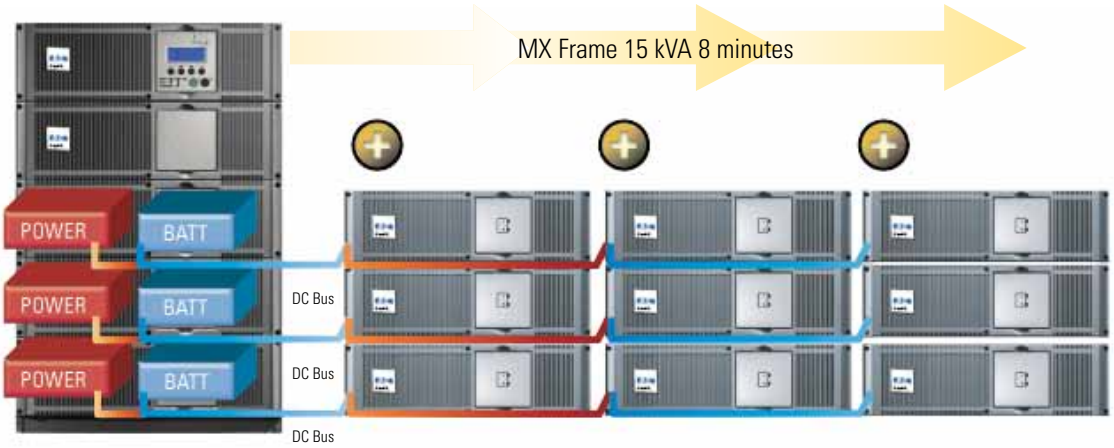
How to order an MX 16U Frame with extended runtime		UPS WITH 1 RUNTIME EXTENSION			UPS WITH 2 RUNTIME EXTENSIONS			UPS WITH 3 RUNTIME EXTENSIONS		
		QTY	PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION
16U 20 kVA Frame	15 kVA	1	87415	15 kVA UPS bundle (upgradeable to 20 kVA)	1	87415	15 kVA UPS bundle (upgradeable to 20 kVA)	1	87415	15 kVA UPS bundle (upgradeable to 20 kVA)
		3	68528	6-foot battery cable	3	68528	6-foot battery cable	3	68528	6-foot battery cable
		3	87103	Ext. battery module (3U)	6	87103	Ext. battery module (3U)	9	87103	Ext. battery module (3U)
	20 kVA	1	87420	20 kVA UPS bundle	1	87420	20 kVA UPS bundle	1	87420	20 kVA UPS bundle
		4	68528	6-foot battery cable	4	68528	6-foot battery cable	4	68528	6-foot battery cable
		4	87103	Ext. battery module (3U)	8	87103	Ext. battery module (3U)	12	87103	Ext. battery module (3U)

OPTIONS	PART NO.	DESCRIPTION
For freestanding installation, add: (various configurations available—consult factory for options)	87410	Caster kit for MX Frames—wheels/floormounts/seismic brackets to attach directly to MX Frame
	86005	Caster cart/integration kit—platform with wheels/floormounts/ seismic brackets to stack EXBs and/or Frame
For 120V output, add: (various configurations available — consult factory for options)	87102	MX 5000 RT (2U) Transformer—plug-and-play (one or two for 10U to frame/up four for 16U frame)
	87482	MX-K 20 kVA Transformer—hardwired input and output

MX Frame rear view (optional caster kits available)

16U

Example: Battery extension for MX Frame 15 kVA configuration



Backup time
15 kVA at 70%/100% load 8/5 minutes 35/20 minutes 60/40 minutes 95/60 minutes

MX STANDALONE MODELS

Catalog Number	Style Number	Description	Rating (VA/Watts)	Input Connection	Output Receptacles	Dimensions (H x W x D, inches)	Weight (lb)	List Price
PULSMXG5000-XL3U	87050	MX 5000 VA RT	5000/4500	Terminal Block with L6-30 cord	Hardwired, (4) L6-30R	5.14 (3U) x 17.50 x 27.60	125.7	$4,150
PULSMXL5000-XL5U	87150	MX 5000 VA RT LV	5000/4500	Terminal Block with L6-30 cord	Hardwired, (3) L6-30R, (2) L5-20R, (6) 5-20R	8.64 (5U) x 17.50 x 27.60	209.7	$5,400

MX FRAME ENCLOSURES: 208/240V

Catalog Number	Style Number	Description	Rating (VA/Watts)	Input Connection	Output Receptacles	Dimensions (H x W x D, inches)	Weight (lb)	List Price
PULSMXG0K20-XL16U	87021	MX 16U	Scalable to 20 kVA Frame Empty	Hardwired	Hardwired, (8) L6-30R	31.30 (16U) x 17.50 x 29.10	157.0	$5,192
PULSMXG15K20-XL16U	87415	MX 16U	Scalable to 20 kVA Frame 15 kVA	Hardwired	Hardwired, (8) L6-30R	31.30 (16U) x 17.50 x 29.20	428.0	$12,099
PULSMXG20K20-XL16U	87420	MX 16U	20000/18000 Frame 20 kVA	Hardwired	Hardwired, (8) L6-30R	31.30 (16U) x 17.50 x 29.30	517.0	$14,275

MX OPTIONS

Catalog Number	Style Number	Description	Dimensions (H x W x D, inches)	Weight (lb)	List Price
72-153653-01	72-153653-01	8' input cable with L6-30P	15.48 (9U) x 17.49 x 28.00	-	$159
PULSMXL5000-XFMR2U	87102	MX Transformer 5 kVA	3.50 (2U) x 17.50 x 25.60	84.0	$1,250
PULSMXG5000-PWR	87100	MX Power Sub-module	7.80 x 5.00 x 23.74	32.0	$1,965
68528	68528	MX 6-foot battery cable	-	-	$63
87410	87410	Caster/Floor Mount Kit for MX Frame	-	-	$181
PULSMXN20K-XFMR	87482	MX-K 20 kVA Transformer	21.00 x 17.50 x 28.00	322.0	$6,999
Extended Battery Modules					
PULSMXG5000-EBM3U	87103	MX EBM	5.14 (3U) x 17.50 x 25.60	154.0	$1,403
PULSMXG5000-BAT	87101	MX Battery Sub-module	4.57 x 8.44 x 19.60	72.0	$533
86005	86005	Battery Integration Kit	-	-	$577

Note: For replacement parts, please contact our Service Group at 800.356.5737 for pricing.

SOFTWARE AND CONNECTIVITY OPTIONS

Catalog Number	Description	List Price
66102	Network Management Card Mini-Slot	$249

See software and connectivity product sections for more detail.

UNITED STATES
8609 Six Forks Road
Raleigh, NC 27615 U.S.A.
Toll Free: 1.800.356.5794

www.eaton.com/powerquality

CANADA
Ontario: 416.798.0112
Toll free: 1.800.461.9166

LATIN AMERICA
South Cone: 54.11.4124.4000
Brazil: 55.11.3616.8500
Andean & Caribbean:
1.949.452.9610
Mexico & Central America:
52.55.9000.5252

EUROPE/MIDDLE EAST/AFRICA
Denmark: 45.3686.7910
Finland: 358.94.52.661
France: 33.1.6012.7400
Germany: 49.0.7841.604.0
Italy: 39.02.66.04.05.40
Norway: 47.23.03.65.50
Portugal: 55.11.3616.8500
Sweden: 46.8.598.940.00
United Kingdom: 44.1753.608.700

ASIA PACIFIC
Australia: 61.2.9693.9366
New Zealand: 64.0.3.343.3314
China: 86.21.6361.5599
HK/Korea/Taiwan: 852.2745.6682
India: 91.11.4223.2300
Singapore/SEA: 65.6825.1668

Eaton and Pulsar are trade names, trademarks, and/or service marks of Eaton Corporation or its subsidiaries and affiliates. All other trademarks are property of their respective owners.

©2011 Eaton Corporation
All Rights Reserved

Printed in USA
PULMX02FXA
November 2011

Powering Business Worldwide